



IBM* PC CONTROLLER CARD FOR FLAT PANEL DISPLAYS PCX10 SERIES

CATALOG NO. PCX10

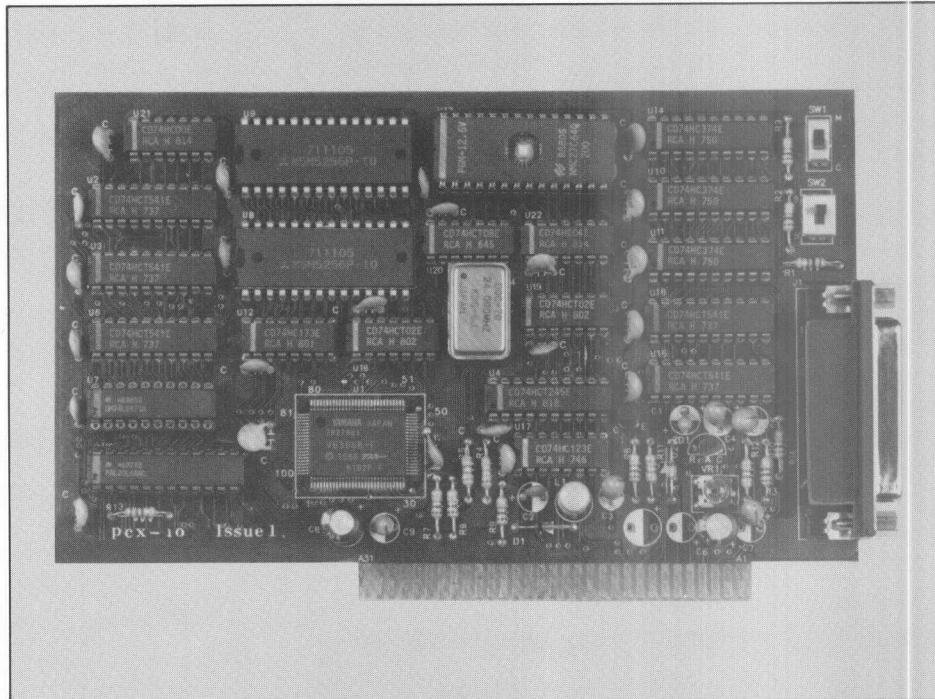
The PCX10 family of controller cards interface Densitron's flat panel displays to IBM PC or compatible computers.

The PCX10 easily plugs into any video card slot of an IBM-compatible PC. The wide variety of Densitron flat panel displays connect directly to the PCX10 cards. These cards are compatible with IBM CGA/MDA and Hercules** modes of operation.

The PCX10 provides a 69Hz frame refresh rate for all sizes of displays to provide the user with a flicker-free display image. The card allows various levels of gray scaling to accommodate the use of color application software. The card uses a dedicated EPROM for auto-initialization of each display and thus reducing the burden of configuring switches. An on-card variable negative voltage generator allows the user to easily select the required power supply requirements for each display.

FEATURES

- Simple plug-in connection to any slot in PC
- CGA software compatibility
- Supports gray scaling capability
- Displays supported—200 × 640 and 400 × 640 panels



APPLICATION BENEFITS

- Replace any existing CRT monitor with an LCD or plasma display
- Minimizes hardware development
- Ideal for PC-controlled applications in outdoor conditions
- Allows multiple displays to be used with one PC simultaneously

ENVIRONMENTAL SPECIFICATIONS

- Power consumption less than 2W (without display)
- Operating temperature 0°C to +55°C
- Storage temperature -30°C to +85°C
- Humidity 0 to 95% non-condensing

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**Hercules is a registered trademark of Hercules Computer Technology.



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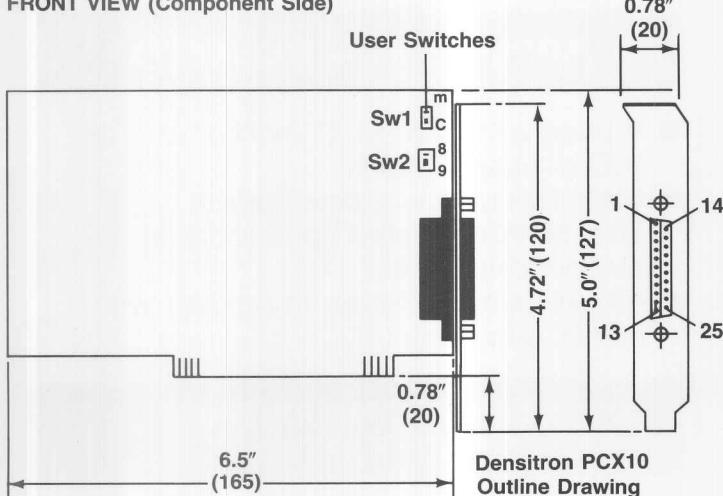
SPECIFICATIONS

HARDWARE DESCRIPTION

The PCX10 controller card is designed around the powerful CMOS Yamaha 6366 controller chip. The controller card accepts the IBM PC Bus signals and uses them to generate the signals required by flat panel displays. The PCX10 is composed of 32K × 16-bit wide static RAM for display memory and a character generator EPROM. The card uses a PROM to perform auto-initialization on power-up. An on-board variable negative voltage generator allows a wide range of LCD modules to be driven. The card includes two switches which provide the user to select the mode of operation and character font. The card uses the 16-bit wide memory and a 24MHz crystal oscillator to achieve a flickerless image for all sizes of flat panel displays. The PCX10 connects directly to the displays via a ribbon cable from the 25-pin "D" connector.

MECHANICAL DRAWING

FRONT VIEW (Component Side)



All dimensions are in inches.

Dimensions in parenthesis are in mm.

MODES OF OPERATION

- CGA—640 × 200 or 640 × 400 (double scan mode)
- HGA—80 × 25 characters, 9 × 4 cell
- Special resolutions—320 × 200 (consult factory)

OPTIONAL ACCESSORIES

- PCX-CAB1—cable adaptor for 200 × 640 panels
- PCX-CAB2—cable adaptor for 400 × 640 panels

ORDERING INFORMATION

DENSITRON DISPLAY

Model Number with polarizer

PCX10 Series Number

200×640 FORMAT

LM205A/B/F	PCX-10Y
LM205E	PCX-10B
LM240A/B/F	PCX-11Y
LM240E, LM678E	PCX-11B
LM879E	PCX-11W
LM645E	PCX-12B
LM863E	PCX-12W
LM676E	PCX-13B
LM877E	PCX-13W
LM91A/B/F	PCX-14Y
LM91E	PCX-14B

400×640 FORMAT

LM213A/B/F, LM218A/B/F	PCX-20Y
LM213E, LM218E	PCX-20B
LM638E, LM643E	PCX-21B
LM853E, LM858E	PCX-21W
400×640 AC Plasma	PCX-600
400×640 DC Plasma	PCX-400



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